NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

MC/PD/W14/2022-23/NT-C1

Date: 01-12-2022

EST REPORT ON CEMENT:

Testing of 53 Grade Cement Sample (IS 12269-1987).
ect*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}
Material testing/PMC/22-23,
rt Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
e of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

ade * : 53,
pe * : O.P.C

BLE 1.1:

Name of Test	Test Results	Requirements as per IS 8112-1989
Initial setting time	**169 min**	Shall not be less than 30 min
Final setting time	**271 min**	Shall not be more than 600 min
Fineness (by dry sieving on IS 90 micron sieve)	**2.12 %**	Not to exceed 10.0%
Soundness test(by Le-Chatelier's method)	**2.01 mm**	Shall not be more than 10 mm
Compressive strength a) 3 days (average of three results)	**28.61 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-CA1 Date: 05-12-2022

1. **TESTING OF COARSE AGGREGATES (20 mm):**

Sub: Testing of Construction Materials.

{Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.30**	85-100	90 - 100
10 mm	**41.90**	0 - 20	25 - 55
4.75 mm	**5.70**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**23.14 %**	Not to exceed 25 %
2.	Crushing value	**27.99 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-SSM2

Date: 09-12-2022

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project:* Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor:* Sri. D. Anand Naidu, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1322.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.44 %**	Not more than 2.0 %

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Nagalakshmi Temple Park

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
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NEW TECHNOLOGIES TO INNOVATE

NC/PMC/PD/W14/2022-23/NT-C2

1. TEST REPORT ON CEMENT:

Date: 19-01-2022

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

[Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.]

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	169 min	Shall not be less than 30 min
	Final setting time	282 min	Shall not be more than 600 min
	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
	Soundness test(by Le-Chatelier's method)	1.83 mm	Shall not be more than 10 mm
	Compressive strength 3 days (average of three results)	28.11 N/Sq mm	Shall not be less than 27 N/Sqmm

Result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Bagalgunte Lake Park

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NEW TECHNOLOGIES TO INNOVATE

NCPMC/PD/W14/2022-23/NT-CB2

Date: 30-12-2022

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

Project*: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.)

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-12-22	30-12-22	07	22500	355	15.78	15.41
	002	"	"	"	"	340	15.11	
	003	"	"	"	"	345	15.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Bagalgunte Lake Park

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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...PD/W14/2022-23/NT-CB3

TEST REPORT ON CEMENT CONCRETE CUBES:

Date: 03-01-2023

(Testing of Concrete Cubes (for 07days Compressive Strength)
Name of Work: Development of park and Construction of Watchmen room at Bagalgunte 12th cross, Nanjikshmi Temple Park in Dasarahalli Zone. Ward No: 14)
Material testing: PMC/22-23,
Work Inspired for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

Details:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	26-12-22	02-01-23	07	22500	350	15.56	15.85
002	"	"	"	"	365	16.22	
003	"	"	"	"	355	15.78	

Result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Kirloskar Layout Park Part-2

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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...W14/2022-23/NT-K1

TEST REPORT

...of Pre-cast Material-Kerb Stones.
...Development of park and Construction of Watchmen room at Bagalgunte 12th cross,
...Nagalakshmi Temple Park in Dasarahalli Zone. Ward No.14.}
...ial testing/PMC/22-23,
...ired for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
...gency/Contractor*: Sri. D. Anand Naidu, Bangalore.

...CAL TESTS ON KERB STONES :

...re t g)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressiv Strength (N/mm^2)
...4	2360.74	1.70	0.960	31.82	16.21	17.50	16.80	21.00
...2	2408.67	1.70	0.960	32.05	16.32	17.63	16.92	21.1
...7	2438.63	1.70	0.960	31.70	16.14	17.44	16.74	20

...materials tested meets the standards and hence can be used for the work.

...Site : Bagalgunte Lake Park

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